Wolfgang A Linke

List of Publications by Year
in descending order

177 papers	16,478 citations	13099 68 h-index	17105 122 g-index
189 all docs	189 docs citations	189 times ranked	15726 citing authors

#	Article	IF	Citations
1	Cardioprotection and lifespan extension by the natural polyamine spermidine. Nature Medicine, 2016, 22, 1428-1438.	30.7	801
2	Myocardial Structure and Function Differ in Systolic and Diastolic Heart Failure. Circulation, 2006, 113, 1966-1973.	1.6	558
3	Titin mutations in iPS cells define sarcomere insufficiency as a cause of dilated cardiomyopathy. Science, 2015, 349, 982-986.	12.6	508
4	Reverse engineering of the giant muscle protein titin. Nature, 2002, 418, 998-1002.	27.8	487
5	Defined Engineered Human Myocardium With Advanced Maturation for Applications in Heart Failure Modeling and Repair. Circulation, 2017, 135, 1832-1847.	1.6	462
6	The Translational Landscape of the Human Heart. Cell, 2019, 178, 242-260.e29.	28.9	407
7	Myocardial Microvascular Inflammatory Endothelial Activation in Heart Failure With Preserved Ejection Fraction. JACC: Heart Failure, 2016, 4, 312-324.	4.1	390
8	Protein Kinase G Modulates Human Myocardial Passive Stiffness by Phosphorylation of the Titin Springs. Circulation Research, 2009, 104, 87-94.	4.5	354
9	Titin Isoform Switch in Ischemic Human Heart Disease. Circulation, 2002, 106, 1333-1341.	1.6	316
10	Passive Stiffness Changes Caused by Upregulation of Compliant Titin Isoforms in Human Dilated Cardiomyopathy Hearts. Circulation Research, 2004, 95, 708-716.	4.5	300
11	Gigantic Business. Circulation Research, 2014, 114, 1052-1068.	4.5	288
12	Isoform Diversity of Giant Proteins in Relation to Passive and Active Contractile Properties of Rabbit Skeletal Muscles. Journal of General Physiology, 2005, 126, 461-480.	1.9	284
13	Towards a Molecular Understanding of the Elasticity of Titin. Journal of Molecular Biology, 1996, 261, 62-71.	4.2	269
14	Differential Cardiac Remodeling in Preload Versus Afterload. Circulation, 2010, 122, 993-1003.	1.6	267
15	Titin-truncating variants affect heart function in disease cohorts and the general population. Nature Genetics, 2017, 49, 46-53.	21.4	255
16	Myocardial Titin Hypophosphorylation Importantly Contributes to Heart Failure With Preserved Ejection Fraction in a Rat Metabolic Risk Model. Circulation: Heart Failure, 2013, 6, 1239-1249.	3.9	241
17	I-Band Titin in Cardiac Muscle Is a Three-Element Molecular Spring and Is Critical for Maintaining Thin Filament Structure. Journal of Cell Biology, 1999, 146, 631-644.	5.2	228
18	Nature of PEVK-titin elasticity in skeletal muscle. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 8052-8057.	7.1	219

#	Article	IF	Citations
19	The Giant Protein Titin. Circulation Research, 1997, 80, 290-294.	4.5	202
20	Tissue-specific expression and Î±-actinin binding properties of the Z-disc titin: implications for the nature of vertebrate Z-discs. Journal of Molecular Biology, 1997, 270, 688-695.	4.2	195
21	The continuous heart failure spectrum: moving beyond an ejection fraction classification. European Heart Journal, 2019, 40, 2155-2163.	2.2	195
22	Deranged myofilament phosphorylation and function in experimental heart failure with preserved ejection fraction. Cardiovascular Research, 2013, 97, 464-471.	3.8	191
23	Passive and active tension in single cardiac myofibrils. Biophysical Journal, 1994, 67, 782-792.	0.5	183
24	PEVK Domain of Titin: An Entropic Spring with Actin-Binding Properties. Journal of Structural Biology, 2002, 137, 194-205.	2.8	179
25	Unfolding of Titin Domains Explains the Viscoelastic Behavior of Skeletal Myofibrils. Biophysical Journal, 2001, 80, 1442-1451.	0.5	178
26	Developmentally Regulated Switching of Titin Size Alters Myofibrillar Stiffness in the Perinatal Heart. Circulation Research, 2004, 94, 967-975.	4.5	177
27	S-Glutathionylation of Cryptic Cysteines Enhances Titin Elasticity by Blocking Protein Folding. Cell, 2014, 156, 1235-1246.	28.9	170
28	Gigantic variety: expression patterns of titin isoforms in striated muscles and consequences for myofibrillar passive stiffness. Journal of Muscle Research and Cell Motility, 2003, 24, 175-189.	2.0	167
29	Titin Gene and Protein Functions in Passive and Active Muscle. Annual Review of Physiology, 2018, 80, 389-411.	13.1	167
30	Actin-titin interaction in cardiac myofibrils: probing a physiological role. Biophysical Journal, 1997, 73, 905-919.	0.5	164
31	Sildenafil and B-Type Natriuretic Peptide Acutely Phosphorylate Titin and Improve Diastolic Distensibility In Vivo. Circulation, 2011, 124, 2882-2891.	1.6	162
32	Crucial Role for Ca ²⁺ /Calmodulin-Dependent Protein Kinase-II in Regulating Diastolic Stress of Normal and Failing Hearts via Titin Phosphorylation. Circulation Research, 2013, 112, 664-674.	4.5	160
33	Titin-based mechanical signalling in normal and failing myocardium. Journal of Molecular and Cellular Cardiology, 2009, 46, 490-498.	1.9	158
34	Mechanically Driven Contour-Length Adjustment in Rat Cardiac Titinâ€™s Unique N2B Sequence. Circulation Research, 1999, 84, 1339-1352.	4.5	153
35	Modulation of Titin-Based Stiffness by Disulfide Bonding in the Cardiac Titin N2-B Unique Sequence. Biophysical Journal, 2009, 97, 825-834.	0.5	151
36	Interaction Between PEVK-Titin and Actin Filaments. Circulation Research, 2001, 89, 874-881.	4.5	150

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37	Multiple common comorbidities produce left ventricular diastolic dysfunction associated with coronary microvascular dysfunction, oxidative stress, and myocardial stiffening. Cardiovascular Research, 2018, 114, 954-964.	3.8	148
38	Association of the Chaperone Î±B-crystallin with Titin in Heart Muscle. Journal of Biological Chemistry, 2004, 279, 7917-7924.	3.4	147
39	Work Done by Titin Protein Folding Assists Muscle Contraction. Cell Reports, 2016, 14, 1339-1347.	6.4	147
40	Smyd2 controls cytoplasmic lysine methylation of Hsp90 and myofilament organization. Genes and Development, 2012, 26, 114-119.	5.9	138
41	The Giant Protein Titin: A Regulatory Node That Integrates Myocyte Signaling Pathways. Journal of Biological Chemistry, 2011, 286, 9905-9912.	3.4	136
42	Protein kinase-A phosphorylates titin in human heart muscle and reduces myofibrillar passive tension. Journal of Muscle Research and Cell Motility, 2006, 27, 435-444.	2.0	128
43	Terminal Differentiation, Advanced Organotypic Maturation, and Modeling of Hypertrophic Growth in Engineered Heart Tissue. Circulation Research, 2011, 109, 1105-1114.	4.5	124
44	Treatments targeting inotropy. European Heart Journal, 2019, 40, 3626-3644.	2.2	123
45	Differentiation- and stress-dependent nuclear cytoplasmic redistribution of myopodin, a novel actin-bundling protein. Journal of Cell Biology, 2001, 155, 393-404.	5.2	122
46	Multiple Potential Molecular Contributors to Atrial Hypocontractility Caused by Atrial Tachycardia Remodeling in Dogs. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 530-541.	4.8	112
47	Heart failure with preserved ejection fraction. Pflugers Archiv European Journal of Physiology, 2014, 466, 1037-1053.	2.8	110
48	Nicotinamide for the treatment of heart failure with preserved ejection fraction. Science Translational Medicine, 2021, 13, .	12.4	109
49	Evidence for FHL1 as a novel disease gene for isolated hypertrophic cardiomyopathy. Human Molecular Genetics, 2012, 21, 3237-3254.	2.9	106
50	Damped elastic recoil of the titin spring in myofibrils of human myocardium. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12688-12693.	7.1	105
51	Differential changes in titin domain phosphorylation increase myofilament stiffness in failing human hearts. Cardiovascular Research, 2013, 99, 648-656.	3.8	105
52	The Giant Protein Titin as an Integrator of Myocyte Signaling Pathways. Physiology, 2010, 25, 186-198.	3.1	102
53	Thyroid Hormone Regulates Developmental Titin Isoform Transitions via the Phosphatidylinositol-3-Kinase/ AKT Pathway. Circulation Research, 2008, 102, 439-447.	4.5	100
54	Human myocytes are protected from titin aggregation-induced stiffening by small heat shock proteins. Journal of Cell Biology, 2014, 204, 187-202.	5.2	98

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55	Pulling single molecules of titin by AFMâ€"recent advances and physiological implications. Pflugers Archiv European Journal of Physiology, 2008, 456, 101-115.	2.8	96
56	Titin as a force-generating muscle protein under regulatory control. Journal of Applied Physiology, 2019, 126, 1474-1482.	2.5	96
57	The molecular elasticity of the insect flight muscle proteins projectin and kettin. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4451-4456.	7.1	93
58	A Spring Tale: New Facts on Titin Elasticity. Biophysical Journal, 1998, 75, 2613-2614.	0.5	92
59	A Common <i>MLP</i> (Muscle LIM Protein) Variant Is Associated With Cardiomyopathy. Circulation Research, 2010, 106, 695-704.	4.5	90
60	Kettin, a major source of myofibrillar stiffness in Drosophila indirect flight muscle. Journal of Cell Biology, 2001, 154, 1045-1058.	5.2	89
61	Syndecan-4 is a key determinant of collagen cross-linking and passive myocardial stiffness in the pressure-overloaded heart. Cardiovascular Research, 2015, 106, 217-226.	3.8	87
62	A troponin switch that regulates muscle contraction by stretch instead of calcium. EMBO Journal, 2004, 23, 772-779.	7.8	84
63	Fibre type-specific increase in passive muscle tension in spinal cord-injured subjects with spasticity. Journal of Physiology, 2006, 577, 339-352.	2.9	84
64	Severe DCM phenotype of patient harboring RBM20 mutation S635A can be modeled by patient-specific induced pluripotent stem cell-derived cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2017, 113, 9-21.	1.9	84
65	Cardiac titin: molecular basis of elasticity and cellular contribution to elastic and viscous stiffness components in myocardium. Journal of Muscle Research and Cell Motility, 2002, 23, 483-497.	2.0	83
66	Telethonin Deficiency Is Associated With Maladaptation to Biomechanical Stress in the Mammalian Heart. Circulation Research, 2011, 109, 758-769.	4.5	78
67	Left Atrial Remodeling and Atrioventricular Coupling in a Canine Model of Early Heart Failure With Preserved Ejection Fraction. Circulation: Heart Failure, 2016, 9, .	3.9	72
68	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. Cardiovascular Research, 2021, 117, 43-59.	3.8	72
69	Lysine methyltransferase Smyd2 regulates Hsp90-mediated protection of the sarcomeric titin springs and cardiac function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 812-822.	4.1	71
70	Insulin signaling regulates cardiac titin properties in heart development and diabetic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2010, 48, 910-916.	1.9	70
71	Left ventricular diastolic dysfunction and myocardial stiffness in diabetic mice is attenuated by inhibition of dipeptidyl peptidase 4. Cardiovascular Research, 2014, 104, 423-431.	3.8	70
72	A porcine model of hypertensive cardiomyopathy: implications for heart failure with preserved ejection fraction. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1407-H1418.	3.2	70

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73	Hypercontractile Properties of Cardiac Muscle Fibers in a Knock-in Mouse Model of Cardiac Myosin-binding Protein-C. Journal of Biological Chemistry, 2001, 276, 5353-5359.	3.4	66
74	Acute and Chronic Ventricular-Arterial Coupling in Systole and Diastole. Hypertension, 2007, 50, 503-511.	2.7	66
75	Tampering with springs: phosphorylation of titin affecting the mechanical function of cardiomyocytes. Biophysical Reviews, 2017, 9, 225-237.	3.2	65
76	Varieties of elastic protein in invertebrate muscles. Journal of Muscle Research and Cell Motility, 2002, 23, 435-447.	2.0	64
77	Diabetes-Induced Cardiomyocyte Passive Stiffening Is Caused by Impaired Insulin-Dependent Titin Modification and Can Be Modulated by Neuregulin-1. Circulation Research, 2018, 123, 342-355.	4.5	64
78	Emerging importance of oxidative stress in regulating striated muscle elasticity. Journal of Muscle Research and Cell Motility, 2015, 36, 25-36.	2.0	63
79	Dietary spermidine for lowering high blood pressure. Autophagy, 2017, 13, 767-769.	9.1	63
80	Truncated titin proteins and titin haploinsufficiency are targets for functional recovery in human cardiomyopathy due to <i>TTN</i> mutations. Science Translational Medicine, 2021, 13, eabd3079.	12.4	59
81	FHL2 expression and variants in hypertrophic cardiomyopathy. Basic Research in Cardiology, 2014, 109, 451.	5.9	58
82	Spontaneous sarcomeric oscillations at intermediate activation levels in single isolated cardiac myofibrils.. Circulation Research, 1993, 73, 724-734.	4.5	57
83	Developmental changes in passive stiffness and myofilament Ca2+ sensitivity due to titin and troponin-I isoform switching are not critically triggered by birth. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H496-H506.	3.2	57
84	Interleukin-6 receptor inhibition modulates the immune reaction and restores titin phosphorylation in experimental myocarditis. Basic Research in Cardiology, 2014, 109, 449.	5.9	55
85	Increased passive stiffness promotes diastolic dysfunction despite improved Ca2+ handling during left ventricular concentric hypertrophy. Cardiovascular Research, 2017, 113, 1161-1172.	3.8	54
86	Molecular and structural transition mechanisms in longâ€term volume overload. European Journal of Heart Failure, 2016, 18, 362-371.	7.1	53
87	Sarcomere Lengthâ€“tension Relationship of Rat Cardiac Myocytes at Lengths Greater than Optimum. Journal of Molecular and Cellular Cardiology, 2000, 32, 247-259.	1.9	52
88	Sphingosineâ€1â€Phosphate Receptor 1 Regulates Cardiac Function by Modulating Ca ²⁺ Sensitivity and Na ⁺ /H ⁺ Exchange and Mediates Protection by Ischemic Preconditioning. Journal of the American Heart Association, 2016, 5, .	3.7	51
89	Cardiac dysfunction in cancer patients: beyond direct cardiomyocyte damage of anticancer drugs: novel cardio-oncology insights from the joint 2019 meeting of the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart. Cardiovascular Research, 2020, 116, 1820-1834.	3.8	51
90	Myofibrillar instability exacerbated by acute exercise in filaminopathy. Human Molecular Genetics, 2015, 24, 7207-7220.	2.9	50

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91	Cronos Titin Is Expressed in Human Cardiomyocytes and Necessary for Normal Sarcomere Function. Circulation, 2019, 140, 1647-1660.	1.6	50
92	Posttranslational modifications of titin from cardiac muscle: how, where, and what for?. FEBS Journal, 2019, 286, 2240-2260.	4.7	49
93	Mechanical properties of cardiac titinâ€™s N2B-region by single-molecule atomic force spectroscopy. Journal of Structural Biology, 2006, 155, 263-272.	2.8	47
94	Conformation-regulated mechanosensory control via titin domains in cardiac muscle. Pflugers Archiv European Journal of Physiology, 2011, 462, 143-154.	2.8	45
95	Titin stiffness modifies the force-generating region of muscle sarcomeres. Scientific Reports, 2016, 6, 24492.	3.3	45
96	Protein phosphatase 5 regulates titin phosphorylation and function at a sarcomere-associated mechanosensor complex in cardiomyocytes. Nature Communications, 2018, 9, 262.	12.8	44
97	Cardiac contractility modulation signals improve exercise intolerance and maladaptive regulation of cardiac key proteins for systolic and diastolic function in HFpEF. International Journal of Cardiology, 2016, 203, 1061-1066.	1.7	42
98	A HaloTag-TEV genetic cassette for mechanical phenotyping of proteins from tissues. Nature Communications, 2020, 11, 2060.	12.8	42
99	Alcohol Affects the Skeletal Muscle Proteins, Titin and Nebulin in Male and Female Rats. Journal of Nutrition, 2003, 133, 1154-1157.	2.9	40
100	Functional characterization of the novel DES mutation p.L136P associated with dilated cardiomyopathy reveals a dominant filament assembly defect. Journal of Molecular and Cellular Cardiology, 2016, 91, 207-214.	1.9	39
101	The Sydney Heart Bank: improving translational research while eliminating or reducing the use of animal models of human heart disease. Biophysical Reviews, 2017, 9, 431-441.	3.2	39
102	Translocation of molecular chaperones to the titin springs is common in skeletal myopathy patients and affects sarcomere function. Acta Neuropathologica Communications, 2017, 5, 72.	5.2	39
103	Mineralocorticoid Signaling in Transition to Heart Failure With Normal Ejection Fraction. Hypertension, 2008, 51, 289-295.	2.7	38
104	Prevention of Myofilament Dysfunction by Î²-Blocker Therapy in Postinfarct Remodeling. Circulation: Heart Failure, 2009, 2, 233-242.	3.9	38
105	Mena/VASP and Î±II-Spectrin complexes regulate cytoplasmic actin networks in cardiomyocytes and protect from conduction abnormalities and dilated cardiomyopathy. Cell Communication and Signaling, 2013, 11, 56.	6.5	38
106	Maintenance of sarcomeric integrity in adult muscle cells crucially depends on Z-disc anchored titin. Nature Communications, 2020, 11, 4479.	12.8	38
107	Titin (TTN): from molecule to modifications, mechanics, and medical significance. Cardiovascular Research, 2022, 118, 2903-2918.	3.8	38
108	Regulation of titin-based cardiac stiffness by unfolded domain oxidation (UnDOx). Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24545-24556.	7.1	37

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109	Phenotypic extremes of BICD2-opathies: from lethal, congenital muscular atrophy with arthrogryposis to asymptomatic with subclinical features. European Journal of Human Genetics, 2017, 25, 1040-1048.	2.8	35
110	A-Band Titin Truncation in Zebrafish Causes Dilated Cardiomyopathy and Hemodynamic Stress Intolerance. Circulation Genomic and Precision Medicine, 2018, 11, e002135.	3.6	35
111	Tie2 Activation Promotes Protection and Reconstitution of the Endothelial Glycocalyx in Human Sepsis. Thrombosis and Haemostasis, 2019, 119, 1827-1838.	3.4	35
112	Multiple sources of passive stress relaxation in muscle fibres. Physics in Medicine and Biology, 2004, 49, 3613-3627.	3.0	33
113	Titinâ€based contribution to shortening velocity of rabbit skeletal myofibrils. Journal of Physiology, 2002, 540, 177-188.	2.9	31
114	Modulation of Titin-Based Stiffness in Hypertrophic Cardiomyopathy via Protein Kinase D. Frontiers in Physiology, 2020, 11, 240.	2.8	31
115	Graded titin cleavage progressively reduces tension and uncovers the source of A-band stability in contracting muscle. ELife, 2020, 9, .	6.0	31
116	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2022, 118, 3016-3051.	3.8	30
117	Titin Isoforms, Extracellular Matrix, and Global Chamber Remodeling in Experimental Dilated Cardiomyopathy. Circulation: Heart Failure, 2008, 1, 192-199.	3.9	29
118	Modulation of Human Ether A Gogo Related Channels by CASQ2 Contributes to Etiology of Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT). Cellular Physiology and Biochemistry, 2010, 26, 503-512.	1.6	29
119	Enhanced Cardiomyocyte Function in Hypertensive Rats With Diastolic Dysfunction and Human Heart Failure Patients After Acute Treatment With Soluble Guanylyl Cyclase (sGC) Activator. Frontiers in Physiology, 2020, 11, 345.	2.8	29
120	Troponin destabilization impairs sarcomere-cytoskeleton interactions in iPSC-derived cardiomyocytes from dilated cardiomyopathy patients. Scientific Reports, 2020, 10, 209.	3.3	29
121	Transmural Heterogeneity of Myofilament Function and Sarcomeric Protein Phosphorylation in Remodeled Myocardium of Pigs with a Recent Myocardial Infarction. Frontiers in Physiology, 2011, 2, 83.	2.8	28
122	Expanding the phenotype of <i>BICD2</i> mutations toward skeletal muscle involvement. Neurology, 2016, 87, 2235-2243.	1.1	28
123	Placenta-Derived Adherent Stromal Cells Improve Diabetes Mellitus-Associated Left Ventricular Diastolic Performance. Stem Cells Translational Medicine, 2017, 6, 2135-2145.	3.3	28
124	CX3CR1 knockout aggravates Coxsackievirus B3-induced myocarditis. PLoS ONE, 2017, 12, e0182643.	2.5	28
125	Limits of titin extension in single cardiac myofibrils. Journal of Muscle Research and Cell Motility, 1996, 17, 425-438.	2.0	27
126	Regulation of Oscillatory Contraction in Insect Flight Muscle by Troponin. Journal of Molecular Biology, 2010, 397, 110-118.	4.2	27

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127	Plasticity of cardiac titin/connectin in heart development. Journal of Muscle Research and Cell Motility, 2006, 26, 333-342.	2.0	26
128	Striational autoantibodies in myasthenia gravis patients recognize I-band titin epitopes. Journal of Neuroimmunology, 1998, 81, 98-108.	2.3	25
129	Passive stiffness changes in soleus muscles from desmin knockout mice are not due to titin modifications. Pflugers Archiv European Journal of Physiology, 2002, 444, 771-776.	2.8	25
130	Cardiac Î±-Actin (<i>ACTC1</i>) Gene Mutation Causes Atrial-Septal Defects Associated With Late-Onset Dilated Cardiomyopathy. Circulation Genomic and Precision Medicine, 2019, 12, e002491.	3.6	23
131	Molecular Characterisation of Titin N2A and Its Binding of CARP Reveals a Titin/Actin Cross-linking Mechanism. Journal of Molecular Biology, 2021, 433, 166901.	4.2	22
132	Targeted therapies in genetic dilated and hypertrophic cardiomyopathies: from molecular mechanisms to therapeutic targets. A position paper from the Heart Failure Association (HFA) and the Working Group on Myocardial Function of the European Society of Cardiology (ESC). European Journal of Heart Failure, 2022, 24, 406-420.	7.1	22
133	SPRED2 deficiency elicits cardiac arrhythmias and premature death via impaired autophagy. Journal of Molecular and Cellular Cardiology, 2019, 129, 13-26.	1.9	21
134	Membrane Remodeling by a Bacterial Phospholipid-Methylating Enzyme. MBio, 2017, 8, .	4.1	19
135	Early myocardial changes induced by doxorubicin in the nonfailing dilated ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H459-H475.	3.2	19
136	Varieties of elastic protein in invertebrate muscles. , 2003, , 435-447.		18
137	Stretch-induced compliance: a novel adaptive biological mechanism following acute cardiac load. Cardiovascular Research, 2018, 114, 656-667.	3.8	18
138	Symmetric dimethylarginine in dysfunctional high-density lipoprotein mediates endothelial glycocalyx breakdown in chronic kidney disease. Kidney International, 2020, 97, 502-515.	5.2	18
139	A novel isoform of myosin 18A (Myo18AÎ³) is an essential sarcomeric protein in mouse heart. Journal of Biological Chemistry, 2019, 294, 7202-7218.	3.4	17
140	Overexpression of human BAG3P209L in mice causes restrictive cardiomyopathy. Nature Communications, 2021, 12, 3575.	12.8	17
141	King of hearts: a splicing factor rules cardiac proteins. Nature Medicine, 2012, 18, 660-661.	30.7	16
142	Homozygous expression of the myofibrillar myopathy-associated p.W2710X filamin C variant reveals major pathomechanisms of sarcomeric lesion formation. Acta Neuropathologica Communications, 2020, 8, 154.	5.2	16
143	Titin Elasticity in the Context of the Sarcomere: Force and Extensibility Measurements on Single Myofibrils. Advances in Experimental Medicine and Biology, 2000, 481, 179-206.	1.6	16
144	Functional Role of the Extended Loop 2 in the Myosin 9b Head for Binding F-actin. Journal of Biological Chemistry, 2009, 284, 3663-3671.	3.4	14

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145	Functional characterization of novel alpha-helical rod domain desmin (DES) pathogenic variants associated with dilated cardiomyopathy, atrioventricular block and a risk for sudden cardiac death. International Journal of Cardiology, 2021, 329, 167-174.	1.7	14
146	Imbalances in protein homeostasis caused by mutant desmin. Neuropathology and Applied Neurobiology, 2019, 45, 476-494.	3.2	13
147	Spider strength and stretchability. Nature Chemical Biology, 2010, 6, 702-703.	8.0	12
148	Myopalladin knockout mice develop cardiac dilation and show a maladaptive response to mechanical pressure overload. ELife, 2021, 10, .	6.0	12
149	Ageâ€dependent changes in contractile function and passive elastic properties of myocardium from mice lacking muscle LIM protein (MLP). European Journal of Heart Failure, 2012, 14, 430-437.	7.1	11
150	Alterations in Titin Properties and Myocardial Fibrosis Correlate With Clinical Phenotypes in Hemodynamic Subgroups of Severe Aortic Stenosis. JACC Basic To Translational Science, 2018, 3, 335-346.	4.1	11
151	Characterization of biventricular alterations in myocardial (reverse) remodelling in aortic banding-induced chronic pressure overload. Scientific Reports, 2019, 9, 2956.	3.3	11
152	Alteration of the Beta-Adrenergic Signaling Pathway in Human Heart Failure. Current Pharmaceutical Biotechnology, 2012, 13, 2522-2531.	1.6	10
153	The first versatile human iPSC-based model of ectopic virus induction allows new insights in RNA-virus disease. Scientific Reports, 2020, 10, 16804.	3.3	9
154	Molecular Giant Vulnerable to Oxidative Damage. Circulation, 2010, 122, 2002-2004.	1.6	7
155	Acute stimulation of the soluble guanylate cyclase does not impact on left ventricular capacitance in normal and hypertrophied porcine hearts in vivo. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H669-H680.	3.2	6
156	Alteration of the Beta-Adrenergic Signaling Pathway in Human Heart Failure. Current Pharmaceutical Biotechnology, 2012, 13, 2522-2531.	1.6	5
157	Alteration of the beta-adrenergic signaling pathway in human heart failure. Current Pharmaceutical Biotechnology, 2012, 13, 2522-31.	1.6	5
158	Heparanase Is a Putative Mediator of Endothelial Glycocalyx Damage in COVID-19 â€" A Proof-of-Concept Study. Frontiers in Immunology, 0, 13, .	4.8	5
159	Titin Stiffness in Heart Disease. Circulation, 2003, 107, e73; author reply e73.	1.6	4
160	Unraveling the mysteries of the titinâ€"N2A signalosome. Journal of General Physiology, 2021, 153, .	1.9	3
161	Response to Gehmlich et al. Letter to the Editor of the Journal of Molecular and Cellular Cardiology Regarding â€œMLP: A Stress Sensor Goes Nuclearâ€• Journal of Molecular and Cellular Cardiology, 2010, 48, 426-427.	1.9	2
162	Titin and Titin-Associated Proteins in Myocardial Stress-Sensing and Mechanical Dysfunction. , 2009, , 3-34.		2

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163	Cardiac titin: molecular basis of elasticity and cellular contribution to elastic and viscous stiffness components in myocardium. , 2003, , 483-497.		2
164	Meeting highlights from the 2013 <scp>E</scp>uropean <scp>S</scp>ociety of <scp>C</scp>ardiology <scp>H</scp>eart <scp>F</scp>ailure <scp>A</scp>ssociation <scp>W</scp>inter <scp>M</scp>eeting on <scp>T</scp>ranslational <scp>H</scp>eart <scp>F</scp>ailure <scp>R</scp>esearch. European Journal of Heart Failure, 2014, 16, 6-14.	7.1	1
165	Acute Ventricular-Arterial Coupling: Insights from an Elderly Hypertensive Canine Model. Journal of Cardiac Failure, 2007, 13, S82.	1.7	0
166	Enhancing cGMP With Sildenafil and BNP Acutely Reduces Diastolic Stiffness in Experimental Diastolic Heart Failure. Journal of Cardiac Failure, 2010, 16, S11.	1.7	0
167	Response to Letter Regarding Article, â€œDifferential Cardiac Remodeling in Preload Versus Afterloadâ€. Circulation, 2011, 123, .	1.6	0
168	Small Heat Shock Proteins Associate under Stress Conditions with Elastic Titin Filaments and Provide Protection from Aggregation. Biophysical Journal, 2012, 102, 359a-360a.	0.5	0
169	Untangling regulatory networks to spot drivers and modulators of cardiac disease. Journal of Molecular and Cellular Cardiology, 2013, 63, 1-3.	1.9	0
170	Posttranslational Modification of Titin Domains as a Main Regulator of Myocardial Stiffness. Biophysical Journal, 2015, 108, 34a.	0.5	0
171	A Novel Role for PP5 in Regulating Titin Phosphorylation and Function in the Heart. Biophysical Journal, 2016, 110, 298a.	0.5	0
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